

Title (en)  
Radar ground surveillance system, particularly for airport.

Title (de)  
Bodenüberwachung-Radarsystem, insbesondere für Flughafen.

Title (fr)  
Dispositif radar de surveillance au sol, notamment pour aéroport.

Publication  
**EP 0629878 A1 19941221 (FR)**

Application  
**EP 94401049 A 19940510**

Priority  
FR 9307149 A 19930614

Abstract (en)  
The radar surveillance system comprises, in combination, a fixed antenna (10) for furnishing an electronic scanning of the space in azimuth in the horizontal plane, a transmission source (GEN) and UHF transmission/reception facilities (HFA; HFB), with a circulator (20), a transmission channel (VE), a reception channel (VR) and means (DIR; 29) for subdividing the reception channel into a sum signal (VR1) and at least one difference signal (VR2). A first and a second receiver elements, with a frequency changing (REC1 and REC2), receive the sum and difference signals respectively, and supply digitally coded outputs. Processing means (40) process the digital signals originating from the first and second receiving elements (REC1 and REC2) for radar detection of objects in the area subject to surveillance. <IMAGE>

IPC 1-7  
**G01S 13/91**; **G01S 13/93**; **G01S 13/87**; **G08G 5/06**

IPC 8 full level  
**G01S 7/02** (2006.01); **G01S 7/03** (2006.01); **G01S 7/282** (2006.01); **G01S 7/285** (2006.01); **G01S 13/02** (2006.01); **G01S 13/22** (2006.01); **G01S 13/28** (2006.01); **G01S 13/42** (2006.01); **G01S 13/87** (2006.01); **G01S 13/91** (2006.01); **G01S 13/931** (2020.01); **G08G 5/06** (2006.01); **H03F 3/68** (2006.01); **G01S 7/288** (2006.01); **G01S 13/72** (2006.01); **G01S 13/934** (2020.01)

CPC (source: EP US)  
**G01S 7/032** (2013.01 - EP US); **G01S 7/282** (2013.01 - EP US); **G01S 7/285** (2013.01 - EP US); **G01S 13/22** (2013.01 - EP US); **G01S 13/28** (2013.01 - EP US); **G01S 13/426** (2013.01 - EP US); **G01S 13/87** (2013.01 - EP US); **G01S 13/91** (2013.01 - EP US); **G01S 13/931** (2013.01 - EP US); **G08G 5/0026** (2013.01 - EP US); **G08G 5/0082** (2013.01 - EP US); **G01S 7/2886** (2021.05 - EP US); **G01S 13/726** (2013.01 - EP US); **G01S 13/934** (2020.01 - EP US); **G01S 2013/0254** (2013.01 - EP US); **G01S 2013/9316** (2020.01 - EP US)

Citation (search report)  
• [A] GB 2165414 A 19860409 - STANDARD TELEPHONES CABLES PLC  
• [A] BETHKE ET AL.: "A novel near-range Radar Network for the Guidance and Control of Vehicles on Airport Manoeuvring Areas", 1993 IEEE NATIONAL RADAR CONFERENCE, 20 April 1993 (1993-04-20), LYNNFIELD, USA, pages 17 - 22, XP000389739

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**EP 0629878 A1 19941221**; **EP 0629878 B1 19970910**; AT E158085 T1 19970915; DE 69405471 D1 19971016; DE 69405471 T2 19980319; DK 0629878 T3 19980223; ES 2107764 T3 19971201; FR 2706624 A1 19941223; FR 2706624 B1 19950929; GR 3025383 T3 19980227; JP H0755929 A 19950303; RU 2115141 C1 19980710; RU 94016388 A 19960527; US 5495249 A 19960227

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